

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. The following listing provides the amended claims with deleted material crossed out and new material underlined to show the changes made.

5 **Listing of Claims:**

1. (Currently Amended) A system, comprising:

a mobile station, including:

a first level 1, a first level 2, and a first level 3 protocol for a licensed wireless service having a licensed wireless channel serviced by a telecommunications network;

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a second level 1, a second level 2, and a second level 3 protocol for an unlicensed wireless service activated when said mobile station is within an unlicensed wireless service area;

an indoor base station operable to communicate with ~~receive an unlicensed~~
15 ~~wireless channel from said mobile station~~ through an unlicensed wireless channel; and

an indoor network controller coupled to said indoor base station and adapted to exchange signals with said telecommunications network;

wherein said network controller ~~and said indoor base station are~~ is configured to convert said second level 1, said second level 2, and said second level 3 protocol into a standard
20 base station controller interface protocol recognized by said telecommunications network;

wherein said indoor base station operates transparently to said second level 3 protocol;

wherein said mobile station, ~~said indoor base station~~, and said network controller are configured to establish a communication session on said unlicensed wireless channel using said standard base station controller interface protocol of said licensed network.

5 2. (Canceled)

3. (Original) The system of claim 1, wherein said telecommunication network comprises a mobile switch center for voice data.

10 4. (Original) The system of claim 1, wherein said mobile station is configured to register its location with said indoor network controller subsequent to detection that it is within said unlicensed wireless service area.

15 5. (Original) The system of claim 1, wherein said second level 1 protocol comprises a Bluetooth protocol.

6. (Original) The system of claim 1, wherein said second level 1 protocol comprises a wireless local area network protocol.

20 7. (Original) The system of claim 1, wherein said second level 3 protocol comprises a radio resource sublayer adapted for said unlicensed wireless system, wherein an access mode switch is triggered to utilize a mobility management sublayer and a call management sublayer shared with said first level 3 protocol.

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8. (Currently Amended) The system of claim 1, wherein said second level 1 protocol comprises 802.11 IEEE wireless standard protocol ~~mobile station is configured to register its location with said indoor network controller.~~

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9. (Currently Amended) A method of providing wireless services using an unlicensed wireless service and a licensed wireless service, the method comprising:

in a first mode of operation, utilizing a licensed wireless channel associated with a telecommunications network to service a communication session with a mobile station;

10 in response to detecting that said mobile station is within a service area of said unlicensed wireless service, generating level 1, level 2, and level 3 protocols of said mobile set for said unlicensed wireless service;

15 converting said level 1, level 2, and level 3 protocols for said unlicensed wireless service into a base station controller interface format compatible with said telecommunications network; and

through an indoor base station, sending a request to said telecommunications network in said base station controller format to service a communications session using an unlicensed wireless channel of said unlicensed wireless service, wherein the indoor base station operates transparently to said level 3 protocol.

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10. (Original) The method of claim 9, further comprising:
generating a location update for said unlicensed service; and
sending said location update to said telecommunications network in said base station controller format.

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11. (Currently Amended) The method of claim 9, further comprising: subsequent to said detecting that said mobile station is within said service area of said unlicensed wireless service, registering with an indoor network controller.

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12. (Original) The method of said 9, wherein said converting is performed in at least one of an indoor base station and an indoor network controller.

13. (Original) The method of claim 9, wherein said level 1 protocol is a Bluetooth
10 level 1 protocol.

14. (Original) The method of claim 13, wherein said level 2 protocol is a Bluetooth level 2 protocol.

15. (Original) The method of claim 9, wherein said level 1 protocol is a wireless local
15 area network protocol.

16. (Original) The method of claim 15, wherein said level 2 protocol is a wireless
local area network level 2 protocol.

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17. (Canceled)

18. (Canceled)

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19. (Canceled)

20. (Canceled)

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